

# DIRECT CURRENT LEAK DETECTING DEVICE

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## Abstract of JP2002168885

**PROBLEM TO BE SOLVED:** To provide a direct current leak detecting device with a simple structure and a few electronic circuits needed. **SOLUTION:** The direct current leak detecting device with a core 10 that magnetizes a difference between a direct current flowing in a first detected conductor 13 of a plus-power line and a direct current flowing in a second detected conductor 14 of a minus-power line, and a detecting coil 11 wound by the core 10, which comprises an alternating current output circuit 20 outputting an alternating current, a load 21 that flows the alternating current in a third detected conductor 22, a voltage detecting circuit 30 that detects a voltage induced in the detecting coil 11, and a comparator circuit 31 that compares a detecting voltage detected by this voltage detecting circuit 30 with a predefined referential voltage to output a leak judgment signal when the detecting voltage is the referential voltage or less, can output a leak signal detecting a leak of a direct current circuit.

